

ATGGCTCTGGGGCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTGGGTGTGGCCATCCCC  
 AGGTTTCAAACCTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGCAGGCACATGGCCGTG  
 GCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGTGTGGAGGCTCCCTGCTCAGTCCAGAATGG  
 GTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTGTGAACTCGTCTGATTATCAGGTGCACTTGG  
 GAGAGCTTACGGTCACACTGTCTCCCCACTTCTCCACTGTAAAACGGATCATCATGTACACTGG  
 CTCTCCAGGACCACCGGGGTCCAGTGGGGACATTGCCCTGGTGCAGCTGTCCTCCCCGGTGGCC  
 CTTTCCAGCCAGGTCCAGCCTGTGTGCCTCCCAGAGGCCTCAGCTGACTTCTACCCTGGGATGC  
 AGTGCTGGGTGACTGGCTGGGGCTATACAGGGGAGGGAGAGCCTCTGAAGCCCCCATAACAACCT  
 TCAGGAGGCCAAAGTCTCTGTGGTGGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCCAAT  
 GGCAGCCTCATCCAGCCAGACATGCTATGCGCCCCGGGGCCCTGGGGATGCCTGCCAGGATGACT  
 CTGGAGGGCCACTAGTCTGCCAGGTGGCTGGAACCTGGCAGCAGGCCGGCGTTGTCAGCTGGGG  
 TGAGGGCTGTGGCCGCCCTGACCGCCCTGGCGTCTATGCCCGGGTTACTGCCTATGTAAACTGG  
 ATCCACCACCACATCCCGGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCC  
 TGGCTGCCCTCTTCTGGCCAAGCCTCTTCCTGCTGCTGGTCTCTGGAGTCCTGATGGCCAAGTA  
 CTGGCTGAGCTCTCCCTCCCACGCGCCTCGGAACTCTGAATGAGGTGTAGCAACCAACCCAAG  
 TGTCTTTCTTAAATAAGTTAGTGTATTATTCAGTTTGCTTTGCCCTCCCCCTCCCCCTTAGCTTG  
 ACTTAGGAAGCCAAAGTTTTTCTGCATCAGATTATTGCAACATTTAACCTGAATTTGTAGAACGG  
 ATGACATAAAGCAAATGGATGTCAAAAAAAAAAAAA (SEQ ID NO:1)

MALGPNCGILLFLAVSGCGHPQVSNVSGSRIVGGHAAPAGTWPWQ  
 ASLRLHKVHVCSSLLSPEWVLTAAHCFSGSVNSSDYQVHLGELTVTLSPHFSTVKRI  
 IMYTGSPGPPGSSGDIALVQLSSPVALSSQVQPVCLPEASADFYPGMQCWVTGWGYTG  
 EGEPLKPPYNLQEAKVSVDVKTCSEQAYNSPNSLIQPDMLCARGPGDACQDDSGGPL  
 VCQVAGTWQQAGVVSWECEGRPDPRPGVYARVTAYVNWIIHHIPEAGGSGMQGLPWAP  
 LLAALFWPSLFLLLVSGVLMKYWLSSPSHAASEL (SEQ ID NO:2)

FIGURE 1

Variable	Mean	SD	Min	Max
Age	38.5	10.2	25	55
Gender	0.5	0.5	0	1
Marital Status	0.7	0.5	0	1
Education	12.5	1.5	10	15
Income	45000	15000	20000	70000
Health Status	0.8	0.4	0	1
Exercise Frequency	2.5	1.5	0	5
Stress Level	3.5	1.5	1	5
Sleep Quality	4.0	1.0	2	5
Diet Quality	3.0	1.0	1	5
Work-Life Balance	3.5	1.0	1	5
Overall Well-being	4.5	1.0	2	5

# Construct

**Gene:** 372 **GI Number(s):** 6103630  
**Gene Family:** Protease  
**Gene Subfamily:** Serine Protease  
**Gene Sequence:** full-length cDNA, Mouse

underlined = deleted in targeting construct  
[ ] = sequence flanking Neo insert in targeting construct

ATGGCTCTGGGGCCCAACTGTGGCATCTACTGTTTCTGGCTGTTTCTG [GGTGTGGCCA  
TCCCCAGGTTTCAAACCTCGGAAGTGAATCGTGGGAGGGCATGCTGCCCCAGCAGGCAC  
ATGGCCGTGGCAGGTAGCCTCCGTCTGCACAAGGTGCACGTGT] GTGGAGGGCTCCCTGC  
TCAGTCCAGAAATGGGTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTGTGAACCTCGTCTG  
ATTATCAGGTGCACTTGGGAGAGCTTACGGTACACGTCTACCTTCTCCCACTT [CTCCACTGTA  
AAACGGATCATCATCTCACTAGCTGGCTCTCCAGGACCACCGGGGTCCAGTGGGGACATTGCC  
CTGGTGCAGCTGTCTTCCCCGGTGGCCCTTTCCAGCCAGGTCCAGCCTGTGTGCCCTCCCA  
GAGGCCCTCAGCTGACTTCTACCCTGGGATGCAGTGTCTGGGTGACTGGCTGGGGCTATACA  
GGGGAGGGAG] AGCCTCTGAAGCCCCCATACAACCTTCAGGAGGCCAAAGTCTCTGTGGT  
GGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCCAATGGCAGCCTCATCCAGCCAGA  
CATGCTATGCGCCCGGGGCCCTGGGGATGCCTGCCAGGATGACTCTGGAGGGCCACTAGT  
CTGCCAGGTGGCTGGAACTCTGCAGCAGGCCCGCGCTTGTCAGCTGGGGTGAGGGCTGTGG  
CCGCCCCTGACCGCCCCTGCGCTCTATGCCCCGGGTACTGCCTATGTAACTGGATCCACCA  
CCACATCCCGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCCTGGC  
TGCCCCCTTCTGGCCAAGCTCTTCCCTGCTGCTGGTCTCTGGAGTCTGATGGCCAAGTA  
CTGGCTGAGCTCTCCCTCCCCACGCGGGCTTCGGAACCTGTAATGAGGTGTAGCAACCAACC  
CAAGTGTCTTTCTTTAAATAAGTTAGTGTATTATTCAGTTTGCTTTGCCCCCTCCCCTCCCCT  
TAGCTTTGACTTTAGGAAGCCAAAGTTTCTGTCATCAGATTATTGCAACATTTAACCTGAA  
TTTGTAGAACGGATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

### Gene Sequence Structure

164 bp

### Sequence Deleted

287 bp

**Size of full-length cDNA: 1122 bp**

**FIGURE 2A**

3/6

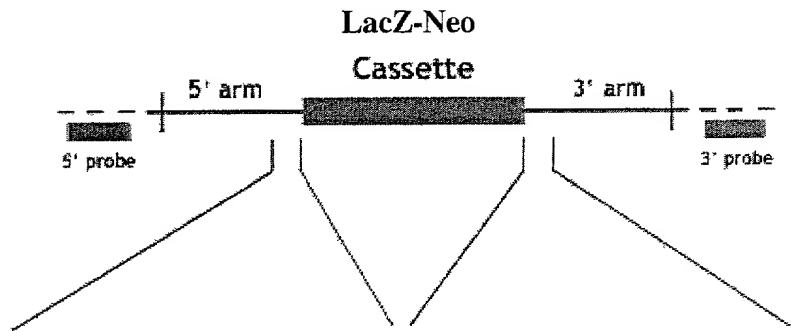
# Targeting Vector\* (genomic sequence)

Construct Number: 1607

Arm Length:

5': 6 kb

3': 0.7 kb



5'>GGAGTCATGGAGGGCTCCCAG  
AGAAAGGGCATTGAGCAGAATGCC  
GGTCTCCAGATTCCCTCACCAACA  
GTGTCTCCTCTGGATCAGGGTGTG  
GCCATCCCCAGGTTTCAAACCTCGG  
GAAGTCGAATCGTGGGAGGGCATG  
CTGCCCCAGCAGGCACATGGCCGT  
GGCAGGCTAGCCTCCGTCTGCACA  
AGGTGACGTGT<3'  
(SEQ ID NO:3)

5'>CTCCACTGTAAAACGGATCAT  
CATGTACACTGGCTCTCCAGGACC  
ACCGGGGTCCAGTGGGGACATTGC  
CCTGGTGCAGCTGTCCTCCCCGGT  
GGCCCTTTCCAGCCAGGTCCAGCC  
TGTGTGCCTCCCAGAGGCCCTCAGC  
TGACTTCTACCCTGGGATGCAGTG  
CTGGGTGACTGGCTGGGGCTATAC  
AGGGGAGGGAG<3'  
(SEQ ID NO:4)

Targeting Vector

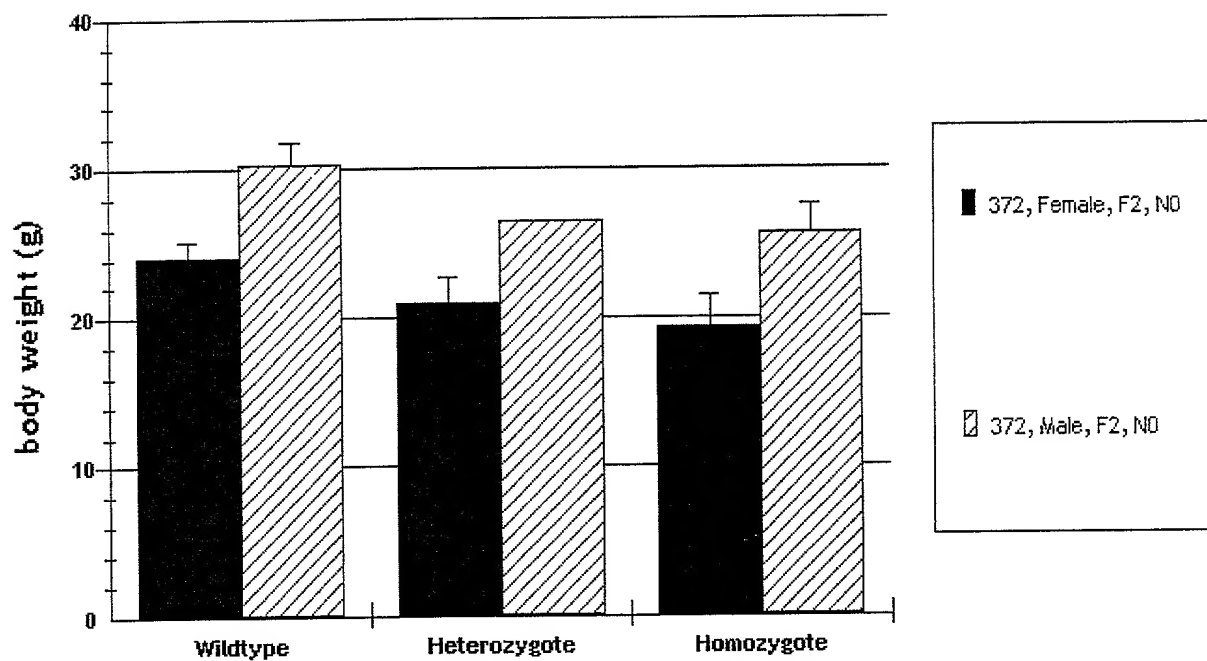
Endogenous Locus

\*Not drawn to scale

FIGURE 2B

4/6

## necropsy - body weight



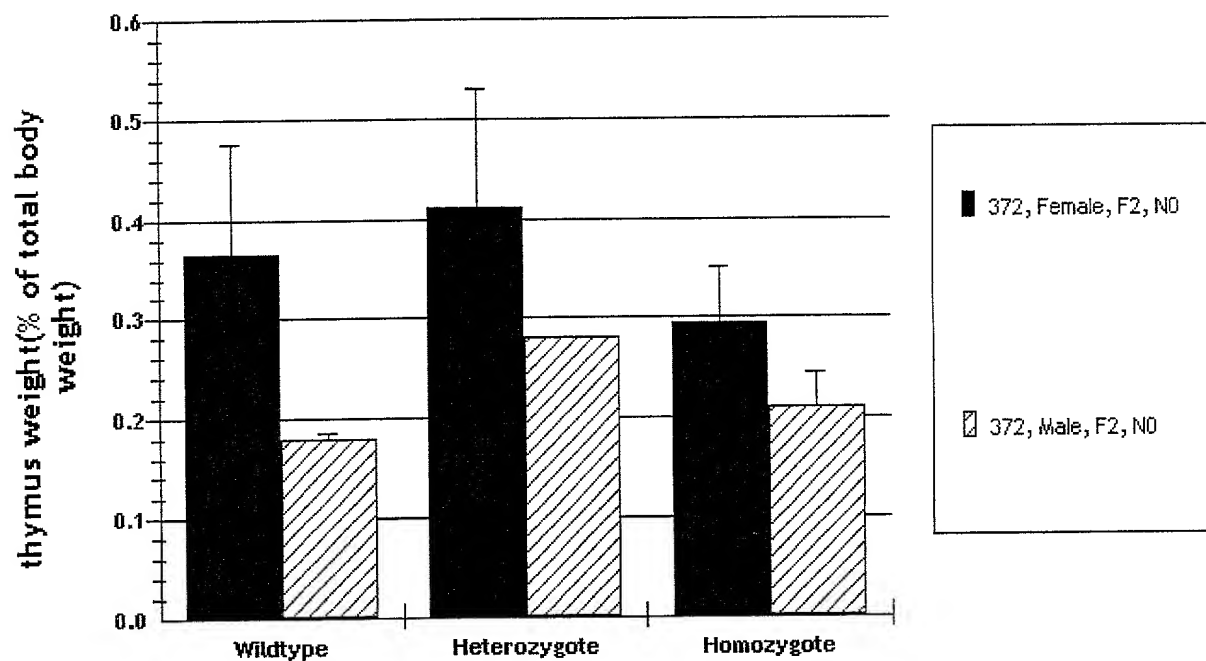
© Deltagen, Inc.

FIGURE 3

09900754-070604  
T09070-45/00660

5/6

# necropsy - thymus weight/body weight



© Deltagen, Inc.

FIGURE 4

209040"45200650

# Phenotypic Data Summary - Startle Response Amplitude

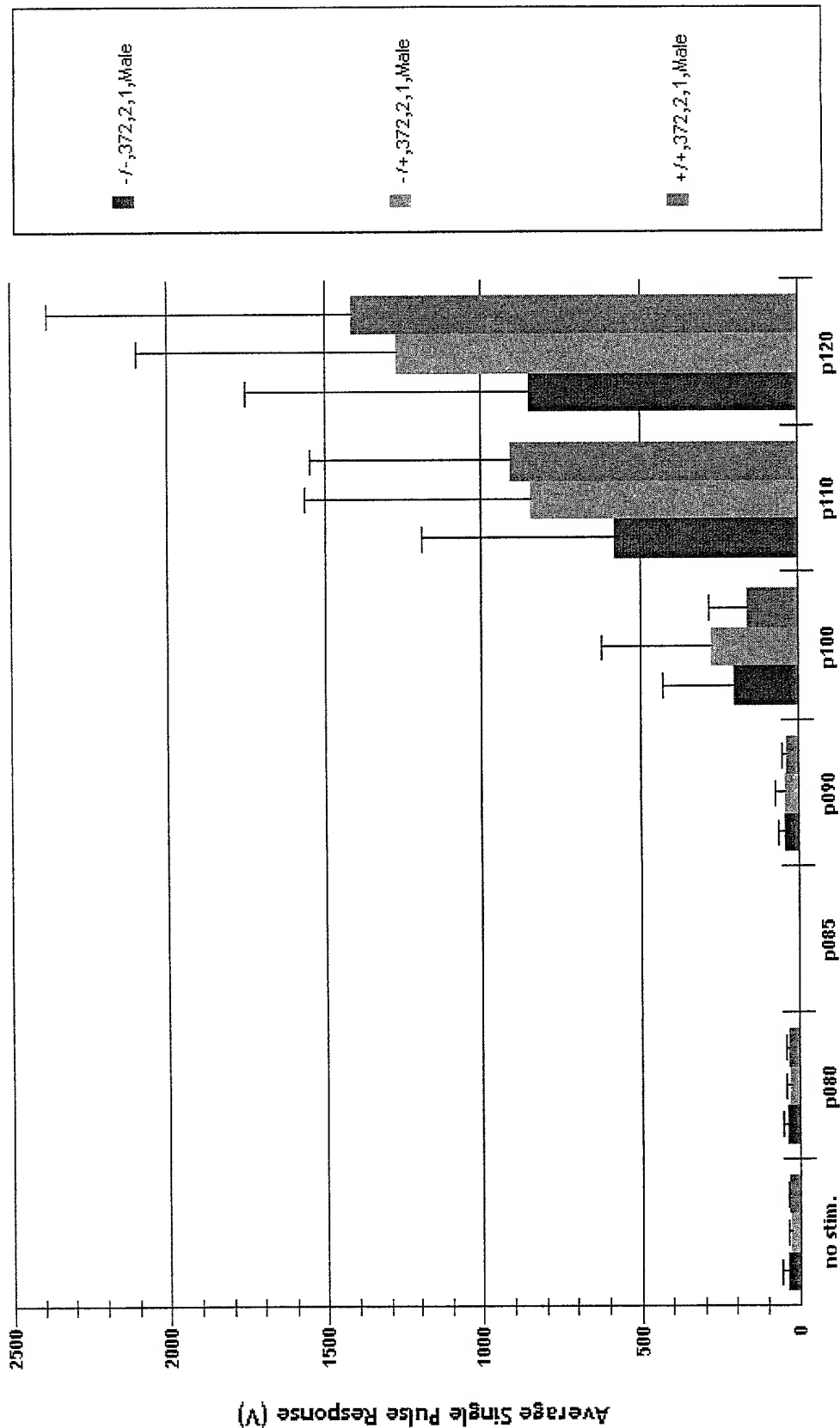


FIGURE 5